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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/618,375	07/09/2003	Eiichi Komai	9281-4601 4922			
7590 08/10/2004 Brinks Hofer Gilson & Lione			EXAMINER			
			JONES, STEPHEN E			
P.O. Box 10395 Chicago, IL 6			ART UNIT	PAPER NUMBER		
			2817			
			DATE MAILED: 08/10/2004	DATE MAILED: 08/10/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

					12		
		Application	n No.	Applicant(s)	- WW		
Office Action Summary		10/618,375	5	KOMAI ET AL.			
		Examiner		Art Unit			
		Stephen E.		2817			
Period fo	The MAILING DATE of this communication Reply	on appears on the	cover sheet with the c	orrespondence addr	ess		
A SH THE - Exter after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT nsions of time may be available under the provisions of 37 (SIX (6) MONTHS from the mailing date of this communicat period for reply specified above is less than thirty (30) days period for reply is specified above, the maximum statutory tre to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	'ION. CFR 1.136(a). In no ever tion. s, a reply within the statut period will apply and will y statute, cause the applic	ort, however, may a reply be tin ory minimum of thirty (30) day expire SIX (6) MONTHS from cation to become ABANDONE	nely filed s will be considered timely. the mailing date of this comr D (35 U.S.C. § 133).	nunication.		
Status							
1)□	Responsive to communication(s) filed on						
2a)□	This action is FINAL . 2b)⊠ This action is non-final.						
3)□							
Disposit	ion of Claims						
5)□ 6)⊠ 7)⊠	Claim(s) 1-7 is/are pending in the applicated 4a) Of the above claim(s) is/are windle Claim(s) is/are allowed. Claim(s) 1.2 and 4-6 is/are rejected. Claim(s) 3 and 7 is/are objected to. Claim(s) are subject to restriction	ithdrawn from con					
Applicati	ion Papers						
9)□	The specification is objected to by the Ex	aminer.					
10)	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)□	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ■ All b) ■ Some * c) ■ None of: 1. ■ Certified copies of the priority documents have been received. 2. ■ Certified copies of the priority documents have been received in Application No 3. ■ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
1) Notic	e of References Cited (PTO-892)		4) Interview Summary				
3) 🛛 Infor	ee of Draftsperson's Patent Drawing Review (PTO-9-mation Disclosure Statement(s) (PTO-1449 or PTO/ er No(s)/Mail Date <u>7/9/03</u> .	SB/08)	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		52)		

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DETAILED ACTION

Claim Objections

1. Claim 1 is objected to because of the following informalities:

It appears that the phrase "wherein the line conductors intersect on a second main surface of the magnetic plate and are connected to one another on the first main surface of the magnetic plate" should read as --wherein the line conductors intersect on a <u>first</u> main surface of the magnetic plate and are connected to one another on the <u>second</u> main surface of the magnetic plate-- since the conductors are disposed on the top (i.e. the first surface as is claimed) and they also intersect on the top surface, but are connected together on the bottom surface (i.e. the second surface).

Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

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not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 1-2 and 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Misawa et al. (JP 2001044710A) in view of Hempel et al.

Misawa teaches a nonreciprocal device including: a yoke (11, 22); a ferromagnetic plate (17) shaped as a circle having a straight cut side (e.g. see Fig. 2) (i.e. it has a major and minor axis and a convex surface on one peripheral portion; conductors are wrapped around the ferrite and are inherently insulated from each other for the device to function properly; each conductor has a terminal; capacitor chips are connected to the conductors; a magnet (21) provides a DC bias; and the magnet projection covers the projection of the ferrite (Claim 5).

However, Misawa does not teach that the magnet is the same shape as the ferromagnetic plate (Claims 1 and 2); that the magnet is shaped as a racing track (Claim 4), or that the ratio of the axis of the magnet to ferrite (either minor or major) is in the range from 1 to 1.9 (Claim 6).

Hempel provides the general teaching of forming the magnet as the same shape and similar size as the ferrite (e.g. see Fig. 1).

It would have been considered obvious to one of ordinary skill in the art to have modified the Misawa device such that the magnet is the same shape as the ferrite (such as taught by Hempel), because it would have provided the advantageous benefit of reducing the weight of the device by using less magnet material since the magnet would

have less excessive magnet material past the edges of the ferrite, thereby suggesting the obviousness of such a modification. Also, the magnet of the combination of Misawa and Hempel can be considered in a "racing track" shape since such a description is broad and racing tracks can have many different configurations.

Furthermore, it would have been considered obvious to one of ordinary skill in the art to have the ratio of the axis of the magnet to ferrite (either minor or major) in the range from 1 to 1.9 in the combination of Misawa and Hempel, especially since both Misawa and Hempel show that the magnet is only slightly greater in distance across its surface than the ferrite, and also having the magnet only slightly larger (i.e. at a ratio of close to one) would have provided the advantageous benefit of a minimized size thus providing the advantageous benefit of reducing the weight of the device.

Allowable Subject Matter

5. Claims 3 and 7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen E. Jones whose telephone number is 571-272-1762. The examiner can normally be reached on Monday through Friday from 8 AM to 4 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert J. Pascal can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Stephen Jone's Patent Examiner Art Unit 2817

SEJ